

## EAST Search History

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| L1    | 545  | 372/35.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/04/03 07:58 |
| L10   | 1    | ("5949805").PN. OR ("6891877").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR               | ON      | 2006/04/03 08:12 |
| L11   | 24   | ("20020034198"   "20020171912"  <br>"20030099262"   "3597695"  <br>"3638140"   "3936772"   "3970960"<br>  "4100507"   "4119929"  <br>"4896119"   "5239408"   "5285310"<br>  "5615043"   "5644424"  <br>"5790303"   "5963363"   "5987049"<br>  "6055249"   "6122097"  <br>"6144484"   "6154478"   "6181461"<br>  "6240111"   "6249371").PN. | US-PGPUB;<br>USPAT;<br>USOCR                          | OR               | ON      | 2006/04/03 08:14 |
| L12   | 15   | ("4191928"   "4725787"   "4943782"<br>  "4989216"   "5022033").PN. OR<br>("5239408").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR               | ON      | 2006/04/03 08:25 |
| L13   | 6    | ("4168474"   "4580268"   "5628196"<br>  "6195372"   "6448501"  <br>"6611540").PN. OR ("6760351").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR               | ON      | 2006/04/03 08:29 |
| L14   | 13   | ("3713030"   "3946332"   "4028635"<br>  "4053851"   "4053852").PN. OR<br>("4168474").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR               | ON      | 2006/04/03 08:35 |
| L15   | 9    | ("3361989"   "3493888"   "3889207"<br>  "4723257"   "5790575"  <br>"6151341"   "6331994").PN. OR<br>("6683900").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                          | OR               | ON      | 2006/04/03 08:50 |
| L16   | 24   | ("3493888"   "3569860"   "3614663"<br>  "3631362"   "3675156"  <br>"3891945"   "4150341"   "4163200"<br>  "4176326"   "4233567"  <br>"4507787"   "4682335"   "4740983"<br>  "4974230"   "5291504"  <br>"5299213"   "5311528"   "5321711"<br>  "5327442"   "5353293"  <br>"5394420"   "5563899").PN. OR<br>("H001673").URPN.                | US-PGPUB;<br>USPAT;<br>USOCR                          | OR               | ON      | 2006/04/03 09:29 |
| L17   | 17   | ("3172056"   "3230474"   "3238470"<br>  "3355674"   "3483481"  <br>"3496484").PN. OR ("3675156").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR               | ON      | 2006/04/03 09:35 |

## EAST Search History

|     |      |   |   |    |     |                  |
|-----|------|---|---|----|-----|------------------|
| S12 | 309  | 372/71.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/04/02 12:04 |
| S13 | 2    | ("4,756,002").PN.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/03/31 14:43 |
| S14 | 16   | ("4665529"   "4979180"   "5014279"<br>  "5437659").PN. OR ("5568503").<br>URPN. | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON  | 2006/03/31 15:09 |
| S15 | 447  | 372/72.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/04/02 12:05 |
| S16 | 188  | S15 and (fluid or water or coolant)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/04/02 12:10 |
| S17 | 162  | S16 and end   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/04/02 12:25 |
| S18 | 285  | S15 not S17   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/04/02 12:27 |
| S19 | 2892 | 372/69,70,75.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/04/02 12:45 |
| S20 | 779  | S19 and ((end or face) with<br>pump\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/04/02 16:17 |
| S21 | 272  | S20 and (fluid or water or coolant)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/04/02 13:41 |

## EAST Search History

|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| S22 | 18  | ("3665335"   "3805186"   "4918703"<br>  "4933946"   "4949346"  <br>"5031184"   "5272710"   "5299213"<br>  "5485482"   "5572541"  <br>"5619522"   "5651021"   "5774489"<br>  "5875206").PN. OR ("6014391").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/04/02 14:43 |
| S23 | 26  | ("4797893"   "4858242"   "5093832"<br>  "5245623"   "5317585"  <br>"5345458"   "5349600"   "5463649"<br>  "5521936"   "5619522"  <br>"5651023"   "5751750"   "5761233"<br>  "5781580").PN. OR ("5974061").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/04/02 15:03 |
| S24 | 23  | ("3229222"   "3383622").PN. OR<br>("3679999").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/04/02 15:26 |
| S25 | 36  | ("3423692"   "3581229"   "3633126"<br>  "3679996"   "3679999"  <br>"3810040"   "3810041"   "4150341"<br>  "4207541"   "4233567").PN. OR<br>("4555786").URPN.  | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/04/02 15:31 |
| S26 | 28  | ("3515897"   "3582820"   "3982201"<br>  "4207541"   "4555786"  <br>"4642809"   "4681396"   "4837771"<br>  "4891815"   "4912713"  <br>"5084889"   "5239549"   "5299220"<br>  "5307430"   "5335237"  <br>"5339328"   "5856060"   "5930282"<br>  "5936984"   "5999555"  <br>"6039632"   "6094297"   "6115396"<br>  "6160824"   "6181468"  <br>"6222872"   "6625194").PN. | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/04/02 15:32 |
| S27 | 8   | ("3609585"   "3679999"   "4233567"<br>  "4563763").PN. OR ("4761789").<br>URPN.   | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON | 2006/04/02 15:37 |
| S28 | 756 | S19 and ((end or edge) with<br>pump\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/04/02 15:40 |
| S29 | 505 | S28 not S21   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/04/02 15:40 |

## EAST Search History

|     |      |  |   |    |     |                  |
|-----|------|--|---|----|-----|------------------|
| S30 | 10   | ("20020094007"   "4764933"   "4847851"   "5105429"   "5105430"   "5307430"   "5521932"   "5548605"   "5555254"   "5689522").PN. OR ("6763050").URPN. | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | ON  | 2006/04/02 16:12 |
| S31 | 1744 | 372/99,103.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/04/02 16:12 |
| S32 | 261  | S31 and ((end or face) with pump\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/04/02 16:16 |
| S33 | 545  | 372/35.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/04/02 16:13 |
| S34 | 354  | S33 and pump\$3  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/04/02 16:13 |
| S35 | 269  | S31 and ((end or face or axial\$2) with pump\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/04/02 16:36 |
| S36 | 794  | S19 and ((end or face or axial\$2) with pump\$3)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/04/02 16:17 |
| S37 | 15   | S36 not S20  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/04/02 16:17 |
| S38 | 4    | ((("6765947") or ("6563845")).PN.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/04/02 16:36 |